

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference NO 7884/WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2005/002301	International filing date (day/month/year) 04/03/2005	(Earliest) Priority Date (day/month/year) 10/03/2004
Applicant NESTEC S.A.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☒ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

APPARATUS AND METHOD FOR STIRRING AND MIXING OF BEVERAGES

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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Box No. IV Text of the abstract (Continuation of Item 5 of the first sheet)

The present invention relates to a device and method for stirring or mixing liquid and/or powdered ingredients with liquid in a drinking vessel (4), the liquid being supplied through a stirring device (3) to an outlet tube (64) which conducts at least one liquid jet towards the interior of the drinking vessel (4). The liquid is supplied through an outlet tube (64) which is rotatably attached to the device (3) and is associated to an external, magnetic member (82). The electromagnet arrangement is arranged outside or at distance of the magnetic member for creating a variable magnetic field configured to move the tube (64) in rotation, so that the emerging liquid jet can be given a corresponding centrifugal effect.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6

Independent claim 1 refers to a drink-stirring device for stirring or mixing liquid and/or powdered ingredients with a liquid in a drinking vessel; dependent apparatus claims 2 to 6 show further embodiments of such a device.

2. claims: 7-12

Independent claim 7 discloses a method for stirring and (...) foaming a liquid in a vessel; dependent method claims 8 to 12 show further embodiments.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01F13/08 B01F5/02 B01F3/08 A47J31/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01F A47J B67D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 900 186 A (BALAS J T ET AL) 19 August 1975 (1975-08-19) abstract; figure 6 -----	1-6
A	US 1 242 493 A (STRINGHAM R H) 9 October 1917 (1917-10-09) figures 1-6 -----	1-6
A	US 4 465 377 A (DE BRUYNE N A ET AL) 14 August 1984 (1984-08-14) abstract; figures 1-16 ----- -/--	1-6

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

1 September 2005

Date of mailing of the international search report

23. 09. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KOH S T ET AL: "DEVELOPMENT OF JET MIXER WITH ROTATING AND UP-AND-DOWN MOVING NOZZLES" J CHEM ENGINEERING OF JAPAN, SOC OF CHEM ENGINEERING TOKYO, JP, vol. 23, no. 5, 1 October 1990 (1990-10-01), pages 632-634, XP000208452 ISSN: 0021-9592	1-6
A	----- PATENT ABSTRACTS OF JAPAN vol. 012, no. 191 (C-501), 3 June 1988 (1988-06-03) -& JP 62 294430 A (TOKO GIKEN KOGYO KK), 21 December 1987 (1987-12-21) abstract; figures 1-6	1-6
A	----- EP 1 155 646 A (ALICE CLUB S.A.S. DI PASQUINI MARIO E C) 21 November 2001 (2001-11-21) cited in the application paragraphs [0014], [0015] abstract; figures 1,2	7-12
A	----- EP 0 373 126 A (PIANA G S) 13 June 1990 (1990-06-13) column 4, line 26 - column 5, line 51 abstract; figures 1-3	7-12
A	----- GB 1 367 354 A (GKN SANKEY LTD) 18 September 1974 (1974-09-18) page 2, line 123 - page 4, line 32 figures 1-3	7-12
A	----- WO 03/092852 A (BRISTOL-MYERS SQUIBB COMP) 13 November 2003 (2003-11-13) abstract; figures 1-4 -----	7-12

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Information on patent family members

International Application No

PCT/EP2005/002301

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3900186 A	19-08-1975	US 3854704 A	17-12-1974
US 1242493 A		NONE	
US 4465377 A	14-08-1984	AT 57850 T	15-11-1990
		DE 3483496 D1	06-12-1990
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		GB 2145003 A ,B	20-03-1985
JP 62294430 A	21-12-1987	JP 1639601 C	18-02-1992
		JP 3001057 B	09-01-1991
EP 1155646 A	21-11-2001	IT M020000103 A1	19-11-2001
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		EP 0373126 A1	13-06-1990
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		BR 0309625 A	08-03-2005
		CA 2484212 A1	13-11-2003
		EP 1539319 A1	15-06-2005
		WO 03092852 A1	13-11-2003
		US 2004005256 A1	08-01-2004